

Marked Up Version of the Claims

70. (Amended) The product of claim 67, wherein said[the] living cells are selected from the group consisting of fibroblasts, keratinocytes, melanocytes, Langerhans' cells originating from the blood, endothelial cells originating from the blood, blood cells, sebocytes, chondrocytes, osteocytes, osteoblasts, [nervous cells] and Merkel's cells, said cells being normal, genetically modified or malignant.

71. (Amended) A composite skin product forming a collagen support comprising at least one porous collagen layer covered on at least one side with a collagen membrane prepared by a compression of a collagen sponge at a pressure of at least about 50 bar, said porous collagen layer comprising living fibroblasts and said collagen membrane comprising on the surface thereof living cells selected from the group consisting of: keratinocytes, melanocytes, [nervous cells,] Merkel's cells, Langerhans' cells originating from the blood, sebocytes, and cells originating from the blood.

73. (Amended) The product of claim 71, wherein the collagen sponge is compressed at a[the] pressure [ranging] between about 50 bar and 200 bar and at a temperature between about 40°C and 60°C.

75. (New) The product of claim 70, further comprising[wherein after having prepared the membrane,] a collagen gel [is deposited] on at least one surface of the membrane, [and the combination of the collagen gel with the membrane is frozen and lyophilized to give said composite product.]

78. (Amended) The product of claim 65, wherein at least one of said[the] porous collagen layer and said collagen membrane is produced from a collagen gel containing a mixture of soluble collagen and insoluble collagen, wherein the collagen is selected from the group consisting of type I collagen and type III collagen.

82. (Amended) The artificial skin of claim 79, comprising living cells selected from the group consisting of fibroblasts, keratinocytes, melanocytes, Langerhans' cells originating from the blood, endothelial cells originating from the blood, blood cells, sebocytes, [nervous cells,] chondrocytes, osteocytes, osteoblasts and Merkel's cells, said cells being normal, genetically modified or malignant.

84. (Amended) The artificial skin of claim 80, wherein at least one of said[the] porous collagen layer and[of the] said collagen membrane comprises a compound which favors cell development.

86. (Amended) The artificial skin of claim 79, wherein the collagen is selected from the group consisting of collagen and a mixture of collagen with at least one polysaccharide selected from the group consisting of a cellulose, a dextran, an alginate, a carrageenan, a glycosaminoglycan, and a chitosan.

87. (Amended) The artificial skin of claim 79, wherein at least one of [the]said porous collagen layer and [of the]said collagen membrane is crosslinked.

94. (Amended) The method of claim 90, comprising living cells selected from the group consisting of fibroblasts, keratinocytes, melanocytes, Langerhans' cells originating from the blood, endothelial cells originating from the blood, blood cells, sebocytes, chondrocytes, osteocytes, osteoblasts, [nervous cells] and Merkel's cells, said cells being normal, genetically modified or malignant.

103. (Amended) The product of claim 100, wherein the living cells are selected from the group consisting of fibroblasts, keratinocytes, melanocytes, Langerhans' cells originating from the blood, endothelial cells originating from the blood, blood cells, sebocytes, chondrocytes, osteocytes, osteoblasts, [nervous cells] and Merkel's cells, said cells being normal, genetically modified or malignant.

104. (Amended) An artificial skin product forming a collagen support comprising at least one porous collagen layer covered on at least one side with a collagen membrane prepared by drying a collagen gel separately from the porous collagen layer, said porous collagen layer comprising living fibroblasts and said compact membrane comprising on the surface thereof living cells selected from the group consisting of: keratinocytes, melanocytes, [nervous cells.] Merkel's cells, Langerhans' cells originating from the blood, and sebocytes.

106. (Amended) The product of claim 105, further comprising[wherein after having prepared the membrane,] a collagen gel [is deposited] on at least one surface of the collagen membrane.[and the combination of the collagen gel with the membrane is frozen and lyophilized to give said composite product.]

113. (Amended) The artificial skin of claim 110, comprising living cells selected from the group consisting of fibroblasts, keratinocytes, melanocytes, Langerhans' cells originating from the blood, endothelial cells originating from the blood, blood cells, sebocytes, chondrocytes, osteocytes, osteoblasts, [nervous cells] and Merkel's cells, said cells being normal, genetically modified or malignant.

117. (Amended) The artificial skin of claim 110, wherein the collagen is selected from the group consisting of a collagen and a mixture of collagen with [one substance]at least one polysaccharide selected from the group consisting of [at least one selected from the group consisting of] cellulose, dextran, alginate, carrageenan, sulfated glycosaminoglycans, and chitosan.

119. (Amended) The artificial skin of claim 118, wherein [said] crosslinking is a thermal dehydration under vacuum.

122. (Amended) The product of claim 121, wherein said living cells on the surface of the membrane are selected from the group consisting of keratinocytes, melanocytes, [nervous

cells.] Merkel's cells, Langerhans' cells originating from the blood, sebocytes, and cells originating from the blood.

130. (Amended) The product of claim 71, wherein said[the] product is [cultivated in a compatible culture medium with the surface layer comprising the living cells emerged at the air-liquid interface and the porous layer comprising the fibroblasts immersed, and wherein said cultivation results in a reconstructed skin composed of] a reconstructed dermis, comprising the fibroblasts that colonized the porous collagen layer forming a three dimensional matrix, said dermis being covered with a multilayer epidermis comprising said collagen membrane.

131. (Amended) The product of claim 104, wherein said[the] product is [cultivated in a compatible culture medium with the surface layer comprising the living cells emerged at the air-liquid interface and the porous layer comprising the fibroblasts immersed, and wherein said cultivation results in] a reconstructed skin composed of a reconstructed dermis, comprising the fibroblasts that colonized the porous collagen layer forming a three dimensional matrix, said dermis being covered with a multilayer epidermis comprising said collagen membrane.

132. (Amended) The product of claim 121, wherein said[the] product is [cultivated in a compatible culture medium with the surface layer comprising the living cells emerged at the air-liquid interface and the porous layer comprising the fibroblasts immersed, and wherein said cultivation results in] a reconstructed skin composed of a reconstructed dermis, comprising the fibroblasts that colonized the porous collagen layer forming a three dimensional matrix, said dermis being covered with a multilayer epidermis comprising said collagen membrane.